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The
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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

T. Todd Tschumi

Acting Commissioner of Patents and Trademarks

Attest *Mary A. Reun*

United States Patent [19]

Perino et al.

[11] Patent Number: 5,908,333
 [45] Date of Patent: Jun. 1, 1999

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[54] CONNECTOR WITH INTEGRAL
TRANSMISSION LINE BUS

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[21] Appl. No.: 08/897,788

[22] Filed: Jul. 21, 1997

[51] Int. Cl.⁶ H01R 9/09
 [52] U.S. Cl. 439/631; 361/775; 174/72 B
 [58] Field of Search 439/61, 631; 361/785,
361/775, 788; 172/71 B, 72 B, 88 B

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[57]

ABSTRACT

A socket (14) includes a first bus conductor (22a) having two or more contact regions (24) and a second bus conductor (22b) arranged substantially parallel to the first bus conductor and having two or more contact regions (24). The first and second bus conductors are spaced relative to one another so as to provide a predetermined electrical impedance and may be arranged to carry electrical signals as transmission lines. A dielectric spacer (36) may be disposed between the first and second bus conductors to provide the spacing. Contact regions (24) of the first and second conductors (22a, 22b) may provide compliant coupling regions for the socket (14). The contact regions (24) of the first bus conductor (22a) may be positioned within the socket (14) so as to contact a lead disposed on a first side of a circuit element (16) and the contact regions (24) of the second bus conductor (22b) may be positioned within the socket (14) so as to contact the lead disposed on the second side of the circuit element (16).

17 Claims, 11 Drawing Sheets

